

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (original) An electrical connector, comprising:
 - a body with first and second end sections, a mid-section disposed between said first and second end sections, and a transition shoulder disposed between said first end section and said mid-section, said mid-section being radially larger than each of said first and second end sections and including an outer surface, said transition shoulder including a face wall extending between said outer surface of said mid-section and an outer surface of said first end section; and
 - a plurality of radial indicator ribs extending from said outer surface of said mid-section, each of said radial indicator ribs including an abutment surface laterally offset from said face wall of said transition shoulder and adapted to abut a portion of a mating electrical connector.
2. (original) An electrical connector according to claim 1, wherein each of said abutment surfaces of said radial indicator ribs forms a step with said face wall of said transition shoulder adapted to receive the portion of the mating electrical connector.
3. (original) An electrical connector according to claim 1, wherein each of said radial indicator ribs extends outwardly from said mid-section of said body radially beyond all portions of said body.
4. (original) An electrical connector according to claim 1, wherein each of said abutment surfaces of said radial indicator ribs are substantially perpendicular to said outer surface of said mid-section in transverse cross-section of said body.

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5. (original) An electrical connector according to claim 1, wherein
said body is formed of a dielectric material; and
said mid-section includes an outer conductive jacket.
6. (original) An electrical connector according to claim 1, wherein
each said radial indicator ribs is formed as a unitary one-piece member with said
outer conductive jacket.
7. (original) An electrical connector according to claim 1, wherein
said mating electrical connector is a high voltage cable connector.
8. (original) An electrical connector according to claim 1, wherein
a ground connection is disposed on said mid-section spaced from each of said ribs
for connecting said body to ground.
9. (original) An electrical connector, comprising:
a body with first and second end sections, a mid-section disposed between said
first and second end sections, and a transition shoulder disposed between said
first end section and said mid-section, said mid-section being radially larger
than each of said first and second end sections and including an outer surface,
said transition shoulder including a face wall extending between said outer
surface of said mid-section and an outer surface of said first end section; and
a radial indicator rib extending from said outer surface of said mid-section, said
radial indicator rib including an abutment surface laterally offset from and
substantially parallel to said face wall of said transition shoulder defining a
step therebetween adapted to receive a portion of a mating electrical connector
with substantially no space between the portion of the mating electrical
connector and said abutment surface of said radial indicator rib.

10. (original) An electrical connector according to claim 9, wherein
a second radial indicator rib extends from said outer surface of said mid-section
and includes an abutment surface laterally offset from said face wall of said
transition shoulder.
11. (original) An electrical connector according to claim 9, wherein
the portion of the mating electrical connector abuts said abutment surface of said
radial indicator rib.
12. (original) An electrical connector according to claim 9, wherein
said radial indicator rib extends radially outwardly from said mid-section of said
body beyond all portions of said body.
13. (original) An electrical connector according to claim 9, wherein
said mid-section includes an outer conductive jacket; and
said radial indicator rib forms a unitary one-piece member with said outer
conductive jacket.
14. (original) An electrical connector according to claim 9, wherein
said mating electrical connector is a high voltage cable connector.
15. (original) An electrical connector according to claim 9, wherein
a ground connection is disposed on said mid-section spaced from said rib for
connecting said body to ground.
16. (original) An electrical connector assembly, comprising:
a first electrical connector including
a body with first and second end sections, a mid-section disposed between
said first and second end sections, and a transition shoulder disposed
between said first end section and said mid-section, said mid-section
being radially larger than each of said first and second end sections and

including an outer surface, said transition shoulder including a face wall extending between said outer surface of said mid-section and an outer surface of said first end section, and

a radial indicator rib extending from said outer surface of said mid-section, said radial indicator rib including an outer surface and an abutment surface laterally offset from said face wall of said transition shoulder defining a step therebetween; and

a second electrical connector including a port receiving said first end section of said first electrical connector and a cuff terminating said port, said cuff being received in said step of said first connector with an end portion of said cuff in close proximity with said abutment surface of said radial indicator rib.

17. (original) An electrical connector assembly according to claim 16, wherein
a plurality of radial indicator ribs extend from said outer surface of said mid-section and each includes an abutment surface laterally offset from said face wall of said transition shoulder; and
each of said radial indicator ribs defining a step between said abutment surface and said face wall of said transition shoulder for receiving said cuff of said second electrical connector with a portion of said cuff abutting each of said abutment surfaces.
18. (original) An electrical connector assembly according to claim 16, wherein
said abutment surface of said radial indicator rib is substantially parallel to said face wall of said transition shoulder.
19. (original) An electrical connector assembly according to claim 16, wherein
said abutment surface of said radial indicator rib is disposed on a wall of said rib that extends radially outwardly from said mid-section beyond said cuff of said second electrical connector and beyond any portion of said first electrical connector.

20. (original) An electrical connector assembly according to claim 16, wherein
said cuff of said second electrical connector covers said step without covering said
outer surface of said radial indicator rib.
21. (original) An electrical connector assembly according to claim 16, wherein
said radial indicator rib is molded to said mid-section of said first electrical
connector.
22. (original) An electrical connector assembly according to claim 16, wherein
said first electrical connector is a high-voltage bushing insert and said second
electrical connector is a high-voltage cable connector.
23. (original) An electrical connector assembly according to claim 16, wherein
a ground connection is disposed on said mid-section spaced from said rib for
connecting said first electrical connector to ground.
24. (original) A method of mating first and second electrical connectors, the first
connector including first and second end sections with a mid-section therebetween
and a transition shoulder disposed between the first end section and the mid-section,
and the second connector including a port sized to accommodate the first end section
of the first electrical connector and a cuff terminating the port, comprising the steps
of:
inserting the first end of the first electrical connector into the port of the second
electrical connector;
covering an outer surface of the transition shoulder of the first electrical connector
with the cuff of the second electrical connector; and
placing an surface of the cuff of the second electrical connector in close proximity
with an abutment surface of a radial indicator rib extending from an outer
surface of the mid-section of the first electrical connector and laterally offset
from the transition shoulder of the first electrical connector, thereby indicating
proper mating between the first and second connectors.

25. (original) A method of mating first and second electrical connectors according to claim 24, further comprising the step of
- abutting the surface of the cuff of the second electrical connector with abutment surfaces of a plurality of radial indicator ribs, respectively, extending from the outer surface of the mid-section of the first electrical connector and are laterally offset from the transition shoulder of the first electrical connector.
26. (original) A method of mating first and second electrical connectors according to claim 24, wherein
- said first electrical connector is a high voltage bushing insert and said second electrical connector is a high voltage cable connector.